Summary

Monthly Confidential Report

(Published at the end of each month)

MONTHLY

ELECTROPHOTOGRAPHY

- Comprehensive Research and Analysis of PPCs, Laser/LED Printers, Toner, Resin, Photoconductor, Rollers and Related Components of Electrophotography -

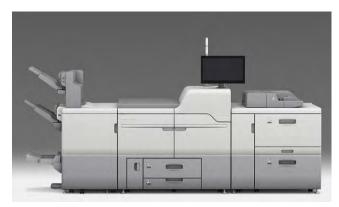
2023. 9



Konica Minolta (A3+/Monochrome) AccurioPress 7136



Brother Industries China (A4/Color) MFC-L3768CDW



Ricoh (A3+/Color) RICOH Pro C7500

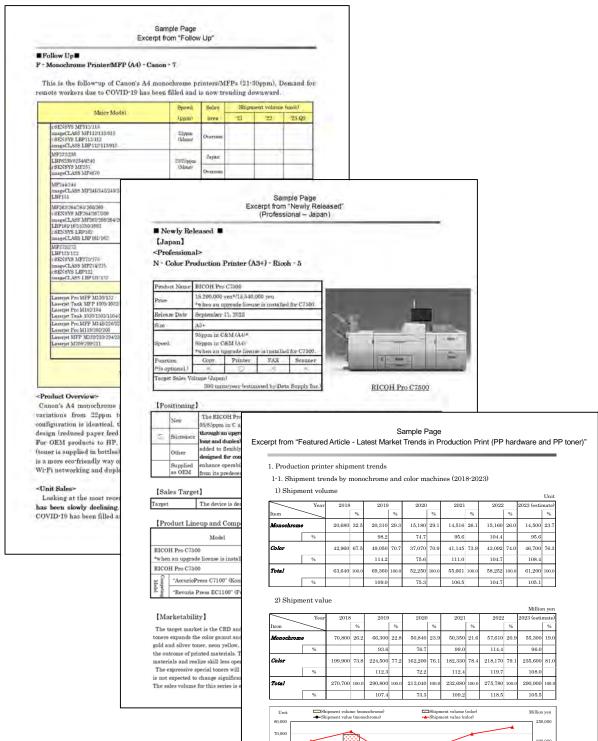


Toshiba TEC China (A3/Monochrome) e-STUDIO2823AMW



Market Research of Japan, China, USA, and Europe **Data Supply Inc.**

Sample Page





Worldwide production printer (PP) shipments in 2022 were 58,252 units (monochrome PP: 15,160 units; color PP: 43,092 units), up 104.7% from the previous year, and the shipment value was 275.78 billion yen, up 118.5% from the previous year (monochrome PP: 57.61 billion yen; color PP: 218.17 billion yen).

On a volume basis, it remains well below the pre-pandemic level (84% of the 2019 results). In contrast, in value terms, it is approaching the 2019 level (95% of the 2019 results), partly due to the effects of the weaker yen. The recovery trend will continue after 2023.

Sample Page



Sample Page Excerpt from "Other News"

O - Financial Statement - HP - 2

HP (HP Inc.) announced its financial statement for 3Q of FY2023 (May-July 2023).

① Overall (3Q)

Unit: million dollars

	Sales	Growth rate	Operating profit	Profit margin	Net profit	Profit margin
Printing	\$4,263	-6.8%	\$794	18.6%	-	-
Personal Systems	\$8,932	-11.3%	\$592	6.6%	-	-
Corp Investments / Other	\$1	nm	(\$220)	nm	-	-

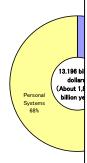
Total HP

Sales by seg



■Production News■

P - Printer - Deli - 1



We report on the printer business of Chinese printer manufacturer Deli from our 2023 version of the Chinese Market Survey Report published in August (Japanese version).

Deli is a leading Chinese stationery retailer founded in 1988. It has a dealer network of more than 45,000 stores throughout China, as well as an online business for corporations. Regarding the printer business, following the launch of mass production of laser printers (LBP) in 2019, it also succeeded in mass production of inkjet printers (LJP) in 2022.

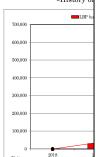
Shipment volume of LBPs is 524,000 units and IJPs 90,000 units in 2022. Its LBPs are mainly sold under its own brand, while its IJPs are mostly OEM for HUAWEI. In both cases,

shipments have been grow home. The printer engine based in Osaka. **The inkjet** to have supplied the techn Its A3 MFPs are also sup of units annually to the Ch

Sample Page Excerpt from "Environmental News"

■Environmental News■

E - Recycled PET Resin - Sanyo Chemical Industries - 1



On September 4, Sanyo Chemical Industries (Headquarters: Kyoto, Japan), a manufacturer of toner resin, announced that it has succeeded in developing a toner binder containing more than 50% used PET (polyethylene terephthalate) resin. While other companies also produce toner binders that use more than 20% used PET resin, Sanyo Chemical Industries (Sanyo Chemical) has achieved a higher content ratio by selecting the optimal non-crystalline component and adjusting how much it is used.

As print quality is becoming higher with increased definition, toners have also been required to have better performance. However, with the increasing need for energy conservation in recent years, there is also a demand for low-temperature fusing properties that melt and fix at lower temperatures to reduce power consumption. Sanyo Chemical has been developing toner binders that meet high definition and high image quality standards while achieving low-temperature fusing.

In recent years, toner manufacturers have been particularly demanding environmentally friendly products. Amid this, the company has continued to study toner binders containing 50% or more recycled PET resin that contributes to reducing environmental impact while maintaining high toner performance. Currently, Sanyo Chemical is exploring potential needs from toner manufacturers, and it is expected to take some time before it is commercially available at a full scale. In particular, whether Sanyo Chemical's largest customer Ricoh will adopt it will largely determine its success or failure.

Polyester resins used as toner binders are generally amorphous, meaning molecules are randomly arranged and molecular weights ranging from several thousand to several tens of thousands. Meanwhile, recycled PET resin has molecules regularly arranged (crystalline) and has an ultra-high molecular weight of several hundred thousand to several million or more. Since their properties are very different, it was necessary to convert recycled PET resin to suitable properties in order to incorporate it into toner binders. Specifically, Sanyo Chemical selected the optimal non-crystalline component and adjusted the amount to be used so the recycled PET resin ratio would increase. It then succeeded in controlling reaction conditions such as reaction temperature and reaction time suitable for amorphization.

Sanyo Chemical plans to apply the recycled PET resin technology to other fields, such as functional chemicals for apparel products.

- ◆Features of environmentally friendly toner binder with recycled PET resin
- (1) Recycled PET resin content ratio: 50% or more
- (2) Demonstrates resin properties (viscoelasticity and low-temperature fusing) equivalent to the company's conventional products without recycled PET resin
- (3) Resin properties and functions can be customized to meet user needs.

Company-wide sales de yen at an exchange rate 164.4 billion yen; 8.8% pyen; 6.5% profit margin) Sales of the Printing sibillion yen), and operat margin).

*All the value above is o

*Source: our 2023 version
2023; Japanese version)
The report provides a de manufacturers. If you're in



September 2023 ____

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